

CLAIM AMENDMENTS

1. (Currently Amended) A method for the producing a flexographic printing plate, which has a base layer and a layer of a light sensitive material attached ~~on to~~ to the base layer, ~~of the type according to which comprising producing an image is produced on the layer of the~~ light sensitive layer material by bringing about a selective crosslinking, by insolation ~~insolating of the zones which are to be crosslinked using light with a predetermined wavelength and by removal of the non-crosslinked zones, characterized by the fact that for the insolation, an~~ with amplitude modulated laser light is used, whose having a wavelength is ~~on the order of 390 to 410 nm, and which is made to sweep sweeping the surface layer of the~~ light sensitive layer material with the laser light, and, thereafter, removing zones which are not crosslinked.

2. (Currently Amended) ~~A~~ The method according to Claim 1, ~~characterized by the fact that one uses~~ including producing the laser light with a laser sources source ~~consisting of a bundle of diodes functioning producing laser light at wavelengths around 405 nm.~~

3. (Currently Amended) ~~A~~ The method according to ~~either of Claims 1 and 2~~ Claim 1, ~~characterized by the fact that the removal of~~ including removing the non-crosslinked zones ~~is done which are not crosslinked by liquefying of these the zones by thermal means which are not crosslinked thermally, without the use of using solvents.~~

4. (Currently Amended) ~~A~~ The method according to Claim 3, ~~characterized by the fact that ones uses a wherein the light sensitive material formulated in such a way that the material not crosslinked by the laser light has a great variation of in viscosity at in a temperature advantageously between range from 60 and to 140°C, and that the material of the zones that are crosslinked zones is completely incapable of melting at this temperature or becomes meltable melt at a temperature much higher than the temperature of variation of viscosity range.~~

5. (Currently Amended) ~~A~~ The method according to ~~one of Claims 1 to 4~~ Claim 1, ~~characterized by the fact that wherein the light sensitive material contains at least one or more selected from the group consisting of high molecular weight polymers, functionalized monomers or oligomers, photo-initiators, reactive or non-reactive diluents, inhibitors and protective agents, and if necessary, pigments.~~

6. (Currently Amended) ~~A~~ The method according to one of Claims Claim 1 to 5,
~~characterized by the fact that~~ wherein the light sensitive material is a photo-polymer
containing at least two complementary crosslinking systems.

7. (Currently Amended) A method according to Claim 6, ~~characterized by the fact~~
~~that~~ wherein a main system is used to create ~~the~~ an image.

8. (Currently Amended) ~~A~~ The method according to Claim 6 or 7, characterized by
~~the fact that~~ including using a complementary system ~~is used~~
to increase ~~the~~ chemical and mechanical resistance.

9. (Currently Amended) ~~A~~ The method according to one of Claims 6 to 8 Claim 6,
~~characterized by the fact that~~ including using a complementary system ~~is used~~
to generate different compressibilities.

10. (Currently Amended) ~~A~~ The method according to one of Claims 6 to 9 Claim 6,
~~characterized by the fact that~~ including partially crosslinking the photo-polymer ~~can be~~
~~pre-crosslinked partially in order~~ to adjust the viscosity ~~or to~~ and prevent cold creep during
prolonged storage periods or transport.

11. (Currently Amended) ~~A~~ The method according to one of Claims 6 to 10 Claim 6,
~~characterized by the fact that~~ including sensitizing the photo-polymer ~~can be sensitized by~~
with a flash of light before writing ~~of the~~ an image ~~by~~ with the laser, ~~in order to increase the~~
~~effectiveness of this writing~~ light.

12. (Currently Amended) ~~A~~ The method according to one of Claims 1 to 11 Claim 1,
~~characterized by the fact that~~ wherein the ~~mentioned~~ light sensitive material is a polymer
with a hardness between 60 and 70 ShA ~~approximately~~.

13. (Currently Amended) ~~A~~ The method according to one of Claims 1 to 12 Claim 1,
~~characterized by the fact that~~ the including insulating the light sensitive material with an
energy ~~used for the insolation is between~~ in a range from 20 and to 1000 mJ/cm².

14. (Currently Amended) ~~A~~ The method according to one of Claims 1 to 13 Claim 1, ~~characterized by the fact that the plate is obtained by thermal~~ including thermally projecting ~~of pre-formulated powders onto a support sleeve~~ to produce the plate.

15. (Currently Amended) ~~A~~ The method according to one of Claims 1 to 14 Claim 1, ~~characterized by the fact that several~~ including insulating the light sensitive material with a plurality of lasers acting operating in parallel ~~are used.~~

16. (Currently Amended) A flexographic printing plate obtained according to one of Claims 1 to 15 Claim 1, ~~characterized by the fact that it is in the form of~~ comprising tubular sleeve (1) on a rigid support, which has having a composite base (4) and, attached on this the base, the layer (5) made of light sensitive material which is free of solvents.

17. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to Claim 16, characterized by wherein the fact that composite base (4) has a thickness between approximately in a range from 0.2 and to 40 mm, and preferably 0.3 mm.

18. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to either of Claims 16 and 17 Claim 16, ~~characterized by wherein the fact that layer (5) of the light sensitive material has a thickness between in a range from 0.5 and to 2 mm, and preferably 1.5 mm.~~

19. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to one of Claims 16 to 18 Claim 16, ~~characterized by wherein the fact that sleeve (1) has~~ includes a compressible layer (6).

20. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to one of Claims 16 to 19 Claim 16, ~~characterized by the fact that associated with~~ including a second sleeve (1) is a sleeve containing an inserted layer (8) for variation of the thickness of the sleeve.

21. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to Claim 20, characterized by wherein the fact that inserted layer (8) is compressible.

22. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to ~~one of Claims 16 to 21~~ Claim 16, characterized by wherein the fact that tubular sleeve (1) is ~~produced by extrusion~~ extruded.

23. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to ~~one of Claims 16 to 21~~ Claim 16, characterized by wherein the fact that tubular sleeve (1) is ~~obtained~~ produced by rolling and attachment of a plate ~~on~~ to a support cylinder or sleeve.

24. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to ~~one of Claims 16 to 21~~ Claim 16, characterized by wherein the fact that tubular sleeve (1) is ~~a sleeve obtained~~ produced by ~~thermal~~ thermally projecting of pre-formulated powders onto a support cylinder or sleeve.

25. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to ~~one of Claims 16 to 24~~ Claim 16, characterized by ~~the fact that~~ wherein the rigid support is ~~formed by~~ includes a base made of polyester film ~~of the flexographic printing plate~~.

26. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to ~~one of Claims 16 to 25~~ Claim 16, characterized by ~~the fact that~~ flexographic printing plate (1) ~~has~~ including a ~~number~~ plurality of the layers of light sensitive material.

27. (Currently Amended) ~~An arrangement~~ The flexographic printing plate according to ~~one of Claims 16 to 26~~ Claim 16, characterized by ~~the fact that~~ wherein the flexographic printing plate (1) ~~can be etched with~~ is etchable with one of water ~~or with~~, an aqueous solution under pressure, ~~at high temperature or by simple~~, and brushing.